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09/987,100	11/13/2001	Jin II Kim	K-0337	6532
34610	7590 07/01/2005		EXAMINER	
FLESHNER & KIM, LLP			PEACHES, RANDY	
P.O. BOX 221200 CHANTILLY, VA 20153			ART UNIT	PAPER NUMBER
			2686	

DATE MAILED: 07/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/987,100	KIM ET AL.				
Office Action Summary	Examiner	Art Unit				
	Randy Peaches	2686				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	nety filed s will be considered timety. the mailing date of this communication. O (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>07 Ap</u>	oril 2005.					
a)⊠ This action is FINAL. 2b)□ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-4,6-15 and 17-22</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-4,6-15 and 17-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex	-, -					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	e-(d) or (f).				
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage				
application from the International Bureau	ı (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	of the certified copies not receive	ed. _.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	· ·				

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claims 1, 4, 11, 13 and 19 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. Please reference Applicant's specification page 9.

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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2. Claims 1, 3, 6, 8-9, 19 and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Kim (U.S. Patent Number 6,597,918 B1).

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Regarding *claims 1, 6 and 19*, Kim discloses short message transmitting method in a communication system comprising the steps of:

- checking the number of characters of an input text message. See column 3 lines
 52-57:
- inserting connection SMS header which includes a separate long message ID, which reads on claimed "message information representing a boundary" indicating that the transmitted message is a part of a given long of the text message and identification information for informing that the text message is divided whenever the checked number, in step number (212), of characters exceeds a predetermined number. See column 3 line 52;
- dividing the input text message according to the inserted connection information.
 See column 3 lines 57-61; and
- In step (222), transmitting divided text messages. See column 4 lines 2-4.
- wherein for a first divided text message among the divided text messages, the said connection SMS header is inserted into only an end portion of the first divided text message. As defined by the *American Heritage College Dictionary*, the word "end" is defined as either extremity of something that has length;

Regarding *claim 3*, according to *claim 1*, Kim discloses wherein at the identification information insertion step, step (218), the long message ID and the sequence number information indicating the sequence order of the segmented message. See columns 3 and 4 lines 61-67 lines 1-6.

Regarding claim 8, according to claim 1, Kim discloses in columns 3 and 4 lines 52-67 lines 1-6, wherein the transmitting the divided text message further includes the steps of:

- checking the divided order of the respective divided text messages; and
- successively transmitting the respective divided text messages according to the checked divided order.

Regarding *claim 9*, according to *claim 8*, Kim discloses in column 4 lines 44-50, wherein the said sequence identification information on the division order of the respective short messages, which reads on claimed "divided text", is obtained by checking the inserted said sequence identification information.

Regarding claim 22, according to claim 19, Kim discloses wherein inserting the said end code at the end of the divided message. See column 4 lines 2-4.

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Claim Rejections - 35 USC § 103

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1. Claims 2, 4, 7, 11-15, 17-18 and 20-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kim (U.S. Patent Number 6,597,918 B1) in view of Quick, Jr. (U.S. Patent Number 5,673,259).

Regarding *claims 2, 17-18 and 20-21*, according to *claims 1, 13 and 19*, Kim discloses short message transmitting method in a communication system comprising the steps of:

- checking the number of characters of an input text message. See column 3 lines
 52-57;
- inserting connection SMS header which includes a separate long message ID, which reads on claimed "message information representing a boundary" indicating that the transmitted message is a part of a given long of the text message and identification information for informing that the text message is divided whenever the checked number, in step number (212), of characters exceeds a predetermined number. See column 3 line 52;
- dividing the input text message according to the inserted connection information.
 See column 3 lines 57-61; and

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• In step (222), transmitting divided text messages. See column 4 lines 2-4.

However, Kim does not disclose wherein at the connection information insertion step, the connection information comprises first connection information for informing that there is the divided text message connected in rear of the connection information, and second connection information for informing there is the divided text message connected in front of the connection information.

Quick, Jr. teaches in FIGURE 8 and column 14 lines 48-67, that at the beginning of a message is a flag octet (802), which reads on claimed "first connection information", informing that data is following the designated flag, which reads on claimed "divided text message connected in rear of the connection information". A second octet flag (810) is inserted at the end to inform that data is placed in between each of the respected flags.

Therefore, at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify the teachings of Kim (U.S. Patent Number 6,597,918 B1) to include Quick, Jr. (U.S. Patent Number 5,673,259) in order to provide an identifier at the beginning and the end of a segmented message string to inform a receiver of the information contained between the said identifiers.

Regarding *claim 4*, as the combination of Kim (U.S. Patent Number 6,597,918 B1) and Quick, Jr. (U.S. Patent Number 5,673,259) are made, the combination according to *claim 2*, further teaches as Quick, Jr. details in FIGURE 8 and column 14 lines 48-67 where the beginning of a message is a flag octet (802), which reads on claimed "first

connection information", informing that data is following the designated flag, which reads on claimed "divided text message connected in rear of the connection information". A second octet flag (810) is inserted at the end to inform that data is placed in between each of the respected flags.

Therefore, at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify the teachings of Kim (U.S. Patent Number 6,597,918 B1) to include Quick, Jr. (U.S. Patent Number 5,673,259) in order to provide an identifier at the beginning and the end of a segmented message string to inform a receiver of the information contained between the said identifiers.

Regarding *claims 7 and 15*, as the combination of Kim (U.S. Patent Number 6,597,918 B1) and Quick, Jr. (U.S. Patent Number 5,673,259) are made, the combination according to *claims 1 and 13*, further teaches as Quick, Jr. details in column 27 lines 53-60 wherein the sub-channels, which reads on claimed "divided text messages", are transmitted through a paging channel.

Therefore, at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify the teachings of Kim (U.S. Patent Number 6,597,918 B1) to include Quick, Jr. (U.S. Patent Number 5,673,259) in order to provide an identifier at the beginning and the end of a segmented message string to inform a receiver of the information contained between the said identifiers.

Regarding *claim 11*, Kim discloses a short message receiving method in a communication system comprising the steps of:

- receiving text messaged transmitted through a radio channel; checking whether
 the received text messaged are text messages divided and transmitted by a
 transmitting end by analyzing identification information for example, header, long
 message ID and message sequence number, of the received text messages.
 See column 4 lines 10-35 and claim 11.
- if it is checked that the received text messages are the divided text messages,
 storing the received text messages in a memory. See column 4 lines 23-28; and
- displaying the text messages stored in the memory. See columns 2 and 4 lines
 2-4 lines 64-65, respectively.

However, Kim does not disclose wherein at the connection information insertion step, the connection information comprises first connection information for informing that there is the divided text message connected in rear of the connection information, and second connection information for informing there is the divided text message connected in front of the connection information.

Quick, Jr. teaches in FIGURE 8 and column 14 lines 48-67, that at the beginning of a message is a flag octet (802), which reads on claimed "first connection information", informing that data is following the designated flag, which reads on claimed "divided text message connected in rear of the connection information". A second octet flag (810) is inserted at the end to inform that data is placed in between each of the respected flags.

Therefore, at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify the teachings of Kim (U.S. Patent Number 6,597,918 B1) to include Quick, Jr. (U.S. Patent Number 5,673,259) in order to provide an identifier at the beginning and the end of a segmented message string to inform a receiver of the information contained between the said identifiers.

Regarding *claim 12*, as the combination of Kim (U.S. Patent Number 6,597,918 B1) and Quick, Jr. (U.S. Patent Number 5,673,259) are made, the combination according to *claim 11*, further teaches, Kim discloses wherein at the display step, the identification information of the respective stored text messages is checked, and the respective stored text messages are successively displayed according to sequence identification number, which reads on claimed "division order information", of the respective stored text messages that is included in the identification information. See columns 2 and 4 lines 2-4 lines 12-17, respectively.

Regarding *claim 13*, Kim discloses a short message transmitting/receiving method in a communication system comprising the steps of:

- a transmitting end producing a message to be transmitted. See columns 1 and 2
 lines 53-67 lines 1-17;
- in case that the message to be transmitted exceeds a predetermined length, a
 receiving end inserting for a predetermined unit of the message connection
 information representing a boundary of the unit and identification information

representing that the message is divided and transmitted. See columns 3 and 4 lines 52-67 lines 29-31;

- segmenting the message according to the inserted connection and identification information. See column 3 lines 52-67;
- numbering and transmitting to the transmitting end the divided unit messages.
 See column 4 lines 1-6; and
- the receiving end assembling the transmitted unit messages into a message according to the connection and identification information of the unit messages and displaying the assembled message. See column 4 lines 1-6.

However, Kim does not disclose wherein at the connection information insertion step, the connection information comprises first connection information for informing that there is the divided text message connected in rear of the connection information, and second connection information for informing there is the divided text message connected in front of the connection information.

Quick, Jr. teaches in FIGURE 8 and column 14 lines 48-67, that at the beginning of a message is a flag octet (802), which reads on claimed "first connection information", informing that data is following the designated flag, which reads on claimed "divided text message connected in rear of the connection information". A second octet flag (810) is inserted at the end to inform that data is placed in between each of the respected flags.

Therefore, at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify the teachings of Kim (U.S. Patent Number 6,597,918

B1) to include Quick, Jr. (U.S. Patent Number 5,673,259) in order to provide an identifier at the beginning and the end of a segmented message string to inform a receiver of the information contained between the said identifiers.

Regarding *claim 14*, as the combination of Kim (U.S. Patent Number 6,597,918 B1) and Quick, Jr. (U.S. Patent Number 5,673,259) are made, the combination according to *claim 13*, further teaches, wherein Kim further discloses a message assembly comprising the steps of:

- temporarily storing the transmitted unit messages. See column 4 lines 44-57.
- assembling the unit messages according to a numbering order of the stored unit messages and the connection information. See column 4 lines 44-57; and
- displaying the assembled message. See columns 2 and 4 lines 2-4 lines 64-65,
 respectively.
- Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kim
 (U.S. Patent Number 6,597,918 B1) in view of Halvorson (U.S. Patent Number
 6,208,859 B1).

Regarding claim 10, according to claim 1, Kim discloses short message transmitting method in a communication system comprising the steps of:

checking the number of characters of an input text message. See column 3 lines
 52-57;

inserting connection SMS header which includes a separate long message ID, which reads on claimed "message information representing a boundary" indicating that the transmitted message is a part of a given long of the text message and identification information for informing that the text message is divided whenever the checked number, in step number (212), of characters exceeds a predetermined number. See column 3 line 52;

- dividing the input text message according to the inserted connection information.
 See column 3 lines 57-61; and
- In step (222), transmitting divided text messages. See column 4 lines 2-4.

However, Kim does not disclose wherein checking whether the respective divided text messages are normally transmitted; and if it is checked that there is any text message not normally transmitted, re-transmitting the corresponding text message.

Halvorson teaches, wherein steps further comprising:

- after the transmission the, determining, which reads on claimed "checking", whether the respective divided text messages are normally transmitted. See column 26 lines 9-17.
- if it is determined that there are any text messages not normally transmitted, retransmitting the corresponding text message. See column 26 lines 9-17.

Therefore, at the time of the invention it would have been obvious to a person of ordinary skilled in the art to modify the teachings of Kim (U.S. Patent Number 6,597,918 B1) to include Halvorson (U.S. Patent Number 6,208,859 B1) in order to provide a checksum step to determined if the transmitted divided text has been transmitted

successfully and if it is not determined that it has not be transmitted successfully retransmit the divided text, accordingly.

Response to Arguments

Applicant's arguments filed 4/07/2005 have been fully considered but they are not persuasive.

Per the above rejection, the claims of the instant application are maintained rejected based on the new matter presented by Applicant. However, for the sake of argument, the Examiner would like to respectively disclose that the word "last" continues to fail to expressively present the claimed invention in allowable format. According to the American Heritage College Dictionary, the word "last" is defined as the end; which in turn, bring us back to the Examiner's interpretation of the word "end", as previously presented.

Therefore based on the above rejection and the comments, claims 1-4,6-15 and 17-22 stand rejected.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Randy Peaches whose telephone number is (571) 272-7914. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marsha D. Banks-Harold can be reached on (571) 272-7905. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Business Center (EBC) at 866-217-9197 (toll-free).

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Randy Peaches June 27, 2005

Marsha D Bank-Harold MARSHA D. BANKS-HAROLD SUPERVISORY PATENT EXAMINER **TECHNOLOGY CENTER 2600**

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